

SOLUTIONS TO PROBLEMS**Section 1.1 Standards of Length, Mass, and Time**

No problems in this section.

Section 1.2 Matter and Model-Building

- P1.1** From the figure, we may see that the spacing between diagonal planes is half the distance between diagonally adjacent atoms on a flat plane. This diagonal distance may be obtained from the Pythagorean theorem, $L_{\text{diag}} = \sqrt{L^2 + L^2}$. Thus, since the atoms are separated by a distance $L = 0.200 \text{ nm}$, the diagonal planes are separated by $\frac{1}{2}\sqrt{L^2 + L^2} = \boxed{0.141 \text{ nm}}$.

Section 1.3 Density and Atomic Mass

- *P1.2** Modeling the Earth as a sphere, we find its volume as $\frac{4}{3}\pi r^3 = \frac{4}{3}\pi(6.37 \times 10^6 \text{ m})^3 = 1.08 \times 10^{21} \text{ m}^3$. Its density is then $\rho = \frac{m}{V} = \frac{5.98 \times 10^{24} \text{ kg}}{1.08 \times 10^{21} \text{ m}^3} = \boxed{5.52 \times 10^3 \text{ kg/m}^3}$. This value is intermediate between the tabulated densities of aluminum and iron. Typical rocks have densities around 2 000 to 3 000 kg/m^3 . The average density of the Earth is significantly higher, so higher-density material must be down below the surface.

- P1.3** With $V = (\text{base area})(\text{height})$ $V = (\pi r^2)h$ and $\rho = \frac{m}{V}$, we have

$$\rho = \frac{m}{\pi r^2 h} = \frac{1 \text{ kg}}{\pi (19.5 \text{ mm})^2 (39.0 \text{ mm})} \left(\frac{10^9 \text{ mm}^3}{1 \text{ m}^3} \right)$$

$$\rho = \boxed{2.15 \times 10^6 \text{ kg/m}^3}.$$

- *P1.4** Let V represent the volume of the model, the same in $\rho = \frac{m}{V}$ for both. Then $\rho_{\text{iron}} = 9.35 \text{ kg}/V$ and $\rho_{\text{gold}} = \frac{m_{\text{gold}}}{V}$. Next, $\frac{\rho_{\text{gold}}}{\rho_{\text{iron}}} = \frac{m_{\text{gold}}}{9.35 \text{ kg}}$ and $m_{\text{gold}} = 9.35 \text{ kg} \left(\frac{19.3 \times 10^3 \text{ kg/m}^3}{7.86 \times 10^3 \text{ kg/m}^3} \right) = \boxed{23.0 \text{ kg}}$.

- P1.5** $V = V_2 - V_1 = \frac{4}{3}\pi(r_2^3 - r_1^3)$
- $$\rho = \frac{m}{V}, \text{ so } m = \rho V = \rho \left(\frac{4}{3}\pi \right) (r_2^3 - r_1^3) = \boxed{\frac{4\pi\rho(r_2^3 - r_1^3)}{3}}.$$

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L Darling-Hammond



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